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DR - 1694-U 1748-U 1755-U 1757-U

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MC - A08-M02 A12-A01 A12-P C04-A09 C04-A10 C05-A01B C05-A03A C05-A03B

C11-C06 C12-M04 C14-A01 C14-B05 G03-B02D1 G03-B04

M1 - [01] M423 M431 M782 M903 P200 P361 Q331 R043 V400 V406

M2 - [02] A220 A940 B115 B701 B713 B720 B815 B831 C101 C108 C802 C804 C805

C807 M411 M431 M782 M903 M904 M910 P200 P361 Q331 R043; R01748-K

R01748-M R01748-T; 1748-U

- [03] A220 A940 B115 B701 B713 B720 B815 B831 C101 C108 C802 C804 C805

C807 M411 M431 M782 M903 M904 M910 P200 P361 Q331 R043; R01755-K

R01755-M R01755-T; 1755-U

- [04] A220 A940 B115 B701 B713 B720 B815 B831 C108 C802 C803 C804 C805

C807 M411 M431 M782 M903 M904 M910 P200 P361 Q331 R043; R01757-K

R01757-M R01757-T; 1757-U

- [05] A429 C710 C810 M411 M417 M431 M782 M903 M904 P200 P361 Q331 R043;

R07379-K R07379-M R07379-T

- [06] A429 A940 A960 C710 C730 M411 M417 M431 M782 M903 M904 P200 P361

Q331 R043; R06206-K R06206-M R06206-T

- [07] G036 G571 H4 H401 H461 H8 J5 J561 M210 M213 M232 M240 M281 M320

M415 M431 M510 M520 M530 M541 M782 M903 M904 P200 P361 Q331 R043;

R04126-K R04126-M R04126-T

- [08] A212 A940 A960 A970 C710 C730 M411 M417 M431 M782 M903 M904 P200

P361 Q331 R043; R06645-K R06645-M R06645-T

- [09] A547 A940 A960 A970 C710 C730 M411 M417 M431 M782 M903 M904 P200

P361 Q331 R043; R07373-K R07373-M R07373-T

- [10] A430 C710 C810 M411 M417 M431 M782 M903 M904 P200 P361 Q331 R043;

R06421-K R06421-M R06421-T

- [11] B114 B702 B720 B831 C108 C800 C802 C803 C804 C805 C807 M411 M431

M782 M903 M904 M910 Q331 R043; R01694-K R01694-M; 1694-U

- [12] A100 A111 A200 A313 A940 B114 B701 B712 B720 B831 C108 C802 C803

C804 C805 C807 M411 M431 M782 M903 M904 Q331 R043; R07707-K R07707-M

PA - (HAYA-I) HAYASE M

PN - JP11310760 A 19991109 DW200005 C09J7/04 005pp

PR - JP19980155142 19980427

XA - C2000-015811

XIC - A01N-025/34 ; A01N-059/16 ; A01N-065/00 ; C09J-007/04

AB - JP11310760 NOVELTY - Organic insect repellent (A) comprising

hinokitiol and extracts from geranium herb or bamboo grass, inorganic antimicrobial (B) consisting of calcium phosphate supported by zeolite or silica carrier and an antimicrobial insect repellent (C), are dispersed on one surface of a paper or cloth base material. On the other side of base material (1), or above the insect repellent layer, a binder layer is formed.

- DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for an organic anti-microbial insect repellent (A) consisting of hinokitiol and extracts from plants such as geranium herb, bamboo grass or mugwort, inorganic antimicrobial (B) consisting of calcium phosphate supported by zirconium phosphate, zeolite or silica carrier and antimicrobial insect repellent (C), are dispersed or applied on one surface of a paper or cloth base material to form an anti-microbial insect repellent layer (2). On the other side of the base material, or above the insect repellent layer, a binder layer (3) consisting of acrylic

or rubber type binder, is formed.

- USE - The antimicrobial and insect repellent adhesive tape is useful for packaging (claimed) articles in carton boxes.
- ADVANTAGE - The adhesive tape has remarkable and persistent anti-microbial and insect repellent effect. The tape enables insect repellent packaging of articles reliably.
- DESCRIPTION OF DRAWING(S) - The figure shows enlarged perspective drawing of cross-section of adhesive tape. (1) Base material; ; (2) Anti-microbial insect repellent layer; ; (3) Binder layer; ; (4) Polyethylene resin lamination layer; ; (5) Release layer.
- (Dwg.1/2)

CN - R01748-K R01748-M R01748-T R01755-K R01755-M R01755-T R01757-K R01757-M R01757-T R07379-K R07379-M R07379-T R06206-K R06206-M R06206-T R04126-K R04126-M R04126-T R06645-K R06645-M R06645-T R07373-K R07373-M R07373-T R06421-K R06421-M R06421-T R01694-K R01694-M R07707-K R07707-M

DRL - 1748-U 1755-U 1757-U 1694-U

IW - ANTIMICROBIAL INSECT REPEL ADHESIVE TAPE PACKAGE ANTIMICROBIAL INSECT REPEL LAYER CONTAIN ORGANIC INSECT REPEL

IKW - ANTIMICROBIAL INSECT REPEL ADHESIVE TAPE PACKAGE ANTIMICROBIAL INSECT REPEL LAYER CONTAIN ORGANIC INSECT REPEL

NC - 001

OPD - 1998-04-27

ORD - 1999-11-09

PAW - (HAYA-I) HAYASE M

TI - Antimicrobial and insect repellent adhesive tape for packaging - has antimicrobial insect repellent layer containing organic insect repellent

A01 - [001] 018 ; P0088-R

- [002] 018 ; H0124-R
- [003] 018 ; ND01 ; K9483-R ; K9563 K9483 ; K9518 K9483 ; K9676-R ; K9698 K9676 ; Q9999 Q6633 ; Q9999 Q6644-R ; Q9999 Q6791 ; Q9999 Q8366-R ; Q9999 Q8468 Q8399 Q8366 ; Q9999 Q8446 Q8399 Q8366
- [004] 018 ; D00 D09 Zn 2B Tr ; R05319 D00 D09 Ag ; R05099 D00 D09 Cu 1B Tr ; R05247 D00 D09 Mg 2A ; D01 D11 D10 D14 D13 D31 D77 D55 D51 D56 D59 D90 F27 F26 F23 ; G3509-R D00 F53 O- 6A P- 5A Ca 2A ; A999 A044-R ; A999 A771
- [005] 018 ; G3441 D00 F80 Al 3A Si 4A O- 6A ; R01694 D00 F20 O- 6A Si 4A ; D00 F53 P- 5A O- 6A Zr 4B Tr ; A999 A793

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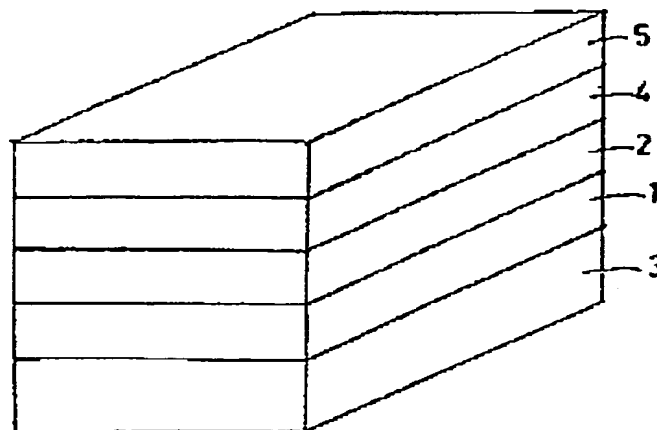
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APPLICANT : HAYASE MANABU;

INVENTOR : HAYASE MANABU;

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A01N 65/00

TITLE : ANTIMICROBIAL INSECTPROOF  
PRESSURE-SENSITIVE ADHESIVE  
TAPE FOR PACKAGING



ABSTRACT : PROBLEM TO BE SOLVED: To provide a pressure-sensitive adhesive tape which can give a container case which is assembled by using the pressure-sensitive adhesive tape and can exhibit antimicrobial insectproof effects even at a part sealed with the pressure-sensitive adhesive tape.

SOLUTION: A antimicrobial insectproof agent C comprising an org. antimicrobial insectproof agent A consisting of hinokitiol and a plant extract component from a cranesbill, bamboo grass, a mugwort, etc., and an inorg. antimicrobial insectproof agent B comprising a metal ion carried by calcium phosphate, zirconium phosphate, zeolite, or silica is sprayed or applied to one side of a substrate 1 to form an antimicrobial insectproof layer 2; and on the other side of the substrate or on the antimicrobial insectproof layer, a pressure- sensitive adhesive layer 3 is formed.

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